

25 FEB 2000

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

25 FEB 2005

Applicant's or agent's file reference FOR FI	IDTHER ACTION See No	olification of Transmittal of International				
PCT 1888HHBRon	FOR FURTHER ACTION See Notification of Transmittat of International Preliminary Examination Report (Form PCT/IPEA/416)					
Illigitations appreciation	nal filing date (day/month/year)	Priority date (day/month/year)				
PCT/EP 03/09697 01.09.2	003	30.08.2002				
International Patent Classification (IPC) or both national classification and IPC						
E21B33/035						
Applicant	Applicant					
COOPER CAMERON CORPORATION et al.						
This international preliminary examination r	port has been prepared by the	his International Preliminary Examining				
Authority and is transmitted to the applicant	according to Article 36.					
2. This REPORT consists of a total of 5 shee	s, including this cover sheet.					
The state of the second paried by Al	INEXES i.e. sheets of the de	escription, claims and/or drawings which have				
l	ne ranon anom sneets cuitt					
(see Rule 70.16 and Section 607 of th		ander the roots.				
These annexes consist of a total of sheets	•					
· .						
3. This report contains indications relating to t	ne following items:					
Basis of the opinion						
II ☐ Priority III ☐ Non-establishment of opinion w	th regard to novelty, inventive	e step and industrial applicability				
V M Beasoned statement under Bul	and the provide and the provided inventive step or industrial applicability:					
VI ☐ Certain documents cited						
VII Certain defects in the internation	nal application					
VIII Certain observations on the inte						
Date of submission of the demand	Date of comple	etion of this report				
	03.09.2004					
27.02.2004	03.03.2004					
Name and mailing address of the international	Authorized Off	icer				
preliminary examining authority: European Patent Office						
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/09697

ı	Basis	of the	rep	ort
и.	Dasis	OI UIC	, 00	\sim .

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages					
	1-16	3	as originally filed				
	01-	i Numbara	A) valence				
		•	ns, Numbers				
1-32			as originally filed				
	Dra	wings, Sheets	igs, Sheets				
1/2-2/2		2/2	as originally filed				
2.	With	/ith regard to the language, all the elements marked above were available or furnished to this Authority in the inguage in which the international application was filed, unless otherwise indicated under this item.					
	The	hese elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	With inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in written form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.				
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
١.	The	he amendments have resulted in the cancellation of:					
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-32

Inventive step (IS)

Yes: Claims

No: Claims 1-32

Industrial applicability (IA)

Yes: Claims

1-32

No: Claims

2. Citations and explanations

see separate sheet

POINT V

V-1. D1: WO-0237008 discloses a rotating regulating device for the rotation and/or linear displacement of an actuating element of a valve, throttle, blowout preventer or similar, in particular in the field of gas or oil production (p.1, l.1-6), with a spindle drive (45) and a drive train (46) rotationally driving the spindle drive, the said drive train exhibiting at least one reduction gear unit (44) and a drive device (43) connected to it for movement, wherein the rotating spindle or nut of the spindle drive exhibits at least one engaging element (17) essentially protruding radially outwards, which engages guide slots (11-14), whereby a first guide slot (14) is fixed relative to a device housing and a second guide slot (12) can be rotated relative to the device housing and/or is supported for displacement in the longitudinal direction of the rotating spindle, whereby the guide slots exhibit at least different slopes in the longitudinal direction (p.9, l.9-11) of the rotating spindle and the movable guide slot is connected for movement to the actuating element (4).

The subject-matter of claim 1 does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.

- V-2. D1 also discloses the subject-matter of claim 2-13, 17, 29-30 and the subject-matter of said claims does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.
- V-3. D1 in combination with D2: US-5370011 disclose the subject-matter of claims 14-16, 22, 31, 32 since D2 discloses the use of both a harmonic drive and a position sensor.
 - D1 in combination with D3: US-5497672 discloses the subject-mattef of claims 18-21, 23, 24.
 - D1 in combination with D4: DE-3607899 discloses the subject-matter of claim 25-28 since D4 discloses the use of of several drive shafts.
- V-4. The subject-matter of claims 15-23 and 32 does not meet the requirements of clarity in the sense of Art. 6 PCT. Said claims are dependent claim any of the previous claims and mention features (such as the harmonic drive, claim 15) which have not been previously introduced (harmonic drive only mentioned in claim 14).

INTERNATIONAL PRELIMINARY International application No. PCT/EP03/09697 EXAMINATION REPORT - SEPARATE SHEET

V-5. Following defect is pointed out:

Rule 6.3b)i) and ii) PCT: incorrect two part form of independent claim with regard to D1.